

# Indiana Office of Technology (IOT) Access Indiana / Salesforce OpenID Connect Setup

Solution Documentation

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#### Background

The Indiana Office of Technology and Indiana Interactive, has been tasked with implementing a single sign-on authentication mechanism and Identity Provider for public online applications for the State of Indiana, referred to as Access Indiana. This project delivers a best practice solution for State Salesforce system administrators to configure an OpenID Connect (OIDC) authentication to work with Access Indiana.

#### Core Workgroup

The core workgroup consisted of members of the Indiana Office of Technology.

Name	Role / Capacity
Alvin Wilson	Deputy Chief Administrative Officer
Yancy Hollonquest	Project Owner
Bob Braun, CRM Architect	Salesforce Configurator @ Relevant Technologies
Casey Boyd, CRM Architect/Developer	Salesforce Developer @ Relevant Technologies
Sloane Wright	General Manager @ Access Indiana

#### How to Use This Document

This document is designed to be a roadmap for helping Application Development move toward the vision expressed by project stakeholders. It provides a description of the functional requirements for the changes being requested.

#### **Target Audience**

This document is intended to assist Certified Salesforce Administrators and Developers in establishing OpenID Connect authentication with Access Indiana.

#### **Useful links**:

Access Indiana	https://www.in.gov/inwp/2678.htm
OpenID Connect Hybrid Flow	https://openid.net/specs/openid-connect-core-
	1 0.html#HybridFlowAuth
Access Indiana well-known	https://accessintegrate.in.gov/.well-known/openid-
endpoints	configuration
Access Indiana Client Set-Up	https://app.smartsheet.com/b/form/472a5b71e31f455ebf14
Request (online form)	<u>b39d9858f77b</u>
Salesforce well-known	https://na112.salesforce.com/.well-known/openid-
endpoints	configuration
OpenID well-known	https:// <my-domain>.my.salesforce.com/.well-</my-domain>
endpoints	known/openid-configuration



#### **Project Execution Steps**

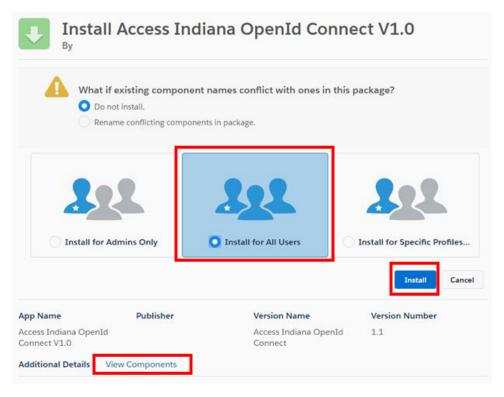
- 1. Install Access Indiana custom Auth. Provider in your Salesforce org
- 2. Initial configuration of Access Indiana custom Auth. Provider in your Salesforce org
- 3. Register an application with Access
- 4. Complete configuration of Access Indiana custom Auth. Provider in your Salesforce org
- 5. Set up Users
- 6. Test your app

#### Install Access Indiana custom Auth. Provider in your Salesforce org

- An authentication provider allows users to log in to their Salesforce org using their login credentials from an external service provider. Salesforce provides authentication providers for apps that support the OpenID Connect protocol, such as Google, Facebook, Twitter, and LinkedIn. For apps that do not support OpenID Connect, Salesforce provides an Apex Auth.AuthProviderPluginClass abstract class to create a custom authentication provider.
- In this case, external service provider is Access Indiana. It is important that while Salesforce support the OpenID Connect protocol, at the time of this writing it does not support the Hybrid Flow (<a href="https://success.salesforce.com/ideaView?id=0873A000000TtnAQAS">https://success.salesforce.com/ideaView?id=0873A000000TtnAQAS</a>). Access Indiana Custom Auth. Provider leverages the Auth.AuthProviderPluginClass, thus we are able use the OpenID Connect Hybrid Flow as required by Access Indiana.
- Log into your Salesforce Organization, location to install the Access Indiana Custom Auth Provider. Salesforce org should have a "My Domain" subdomain. For help setting up a "My Domain" subdomain, please refer to this link: <a href="https://help.salesforce.com/articleView?id=domain\_name\_overview.htm&type=5.">https://help.salesforce.com/articleView?id=domain\_name\_overview.htm&type=5.</a>
- With My Domain, you create a subdomain within the salesforce.com domain. For example, trailhead is a subdomain of the Salesforce domain: trailhead.salesforce.com. With a subdomain, you replace the instance URL that Salesforce assigned you, like <a href="https://na30.salesforce.com">https://na30.salesforce.com</a>, with your chosen domain name, such as <a href="https://somethingcool.my.salesforce.com">https://somethingcool.my.salesforce.com</a>.
- Access Indiana Custom Auth. Provider is delivered as a Salesforce unmanaged package.
   The package URL for this solution is:
   <a href="https://test.salesforce.com/packaging/installPackage.apexp?p0=04t350000001Eob">https://test.salesforce.com/packaging/installPackage.apexp?p0=04t350000001Eob</a>



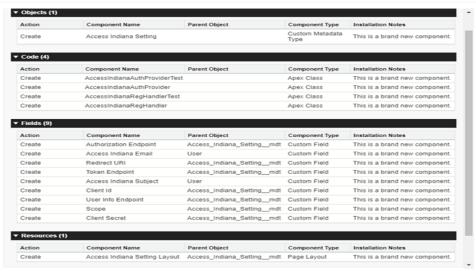
- After logging in to your Salesforce org, append "/packaging/installPackage.apexp?p0=04t350000001Eob" (no quotes) to your "My Domain" Salesforce URL. So, if your "My Domain" for your org is "ingovtech", you would install the unmanaged package using this URL: <a href="https://ingovtech.my.salesforce.com//packaging/installPackage.apexp?p0=04t3500000">https://ingovtech.my.salesforce.com//packaging/installPackage.apexp?p0=04t3500000</a> 01Eob
- If you have not logged in, you will be redirected to do so. Once authenticated, select the "Install for All Users" button and then click the "Install" button. From here, you can also view the solution components by clicking the "View Components" link:



This is a working solution. However, there are many ways an Agency may want to use this solution. Therefore, because this is an unmanaged package, you have access to customize this solution as you see fit.



#### **Package Components**

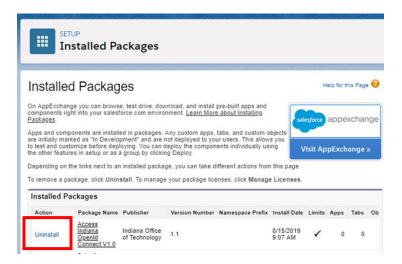








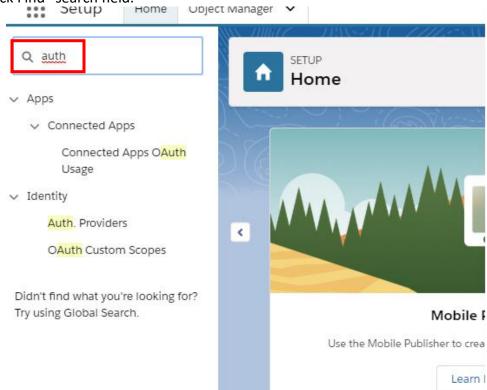
If you ever want to uninstall this package, you would click the "Uninstall" link to do so.



At this point, installation is complete.

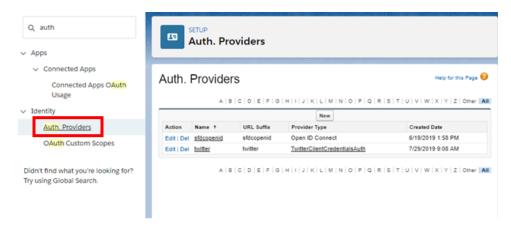
#### Initial configuration of Access Indiana custom Auth. Provider in your Salesforce org

• In Setup, navigate to the Auth. Providers SETUP page by typing "auth" in the Setup "Quick Find" search field.

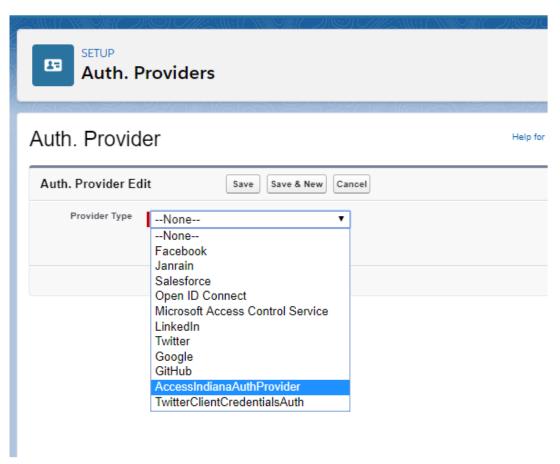




Click to select Auth Providers.

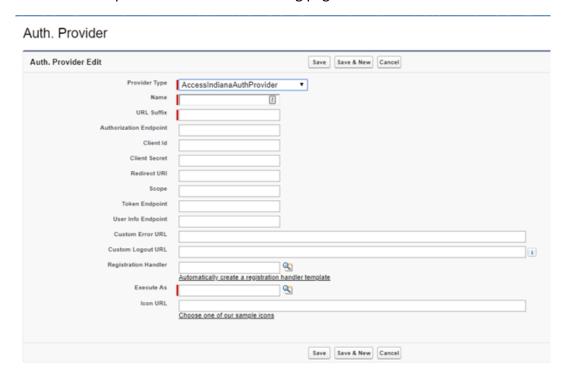


 Click the "New" button and select the "AccessIndianaAuthProvider" from the Provider Type picklist.

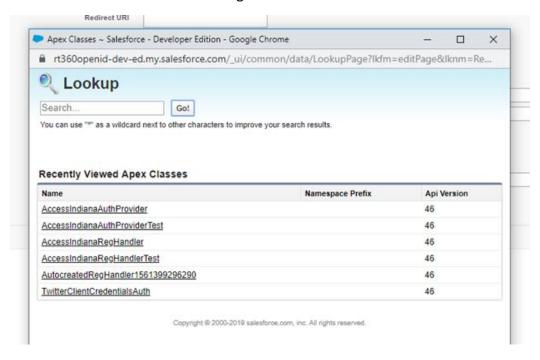




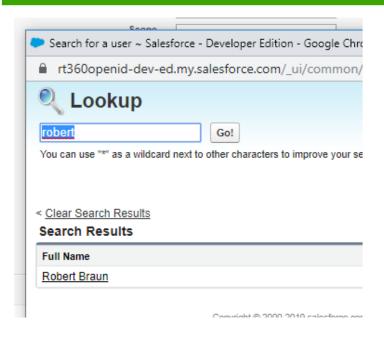
• You will then be presented with the following page:



• Type in the "Name", "URL Suffix", select a "Registration Handler", select an "Execute As" User that will be used as the running user for this authentication.

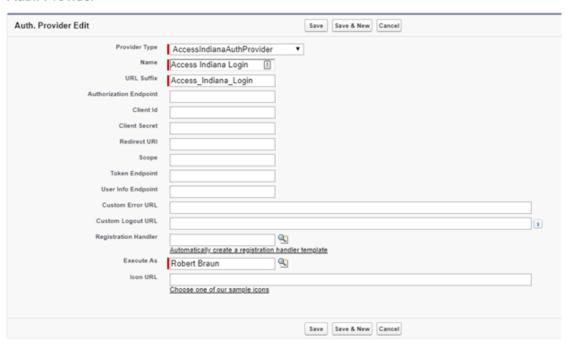




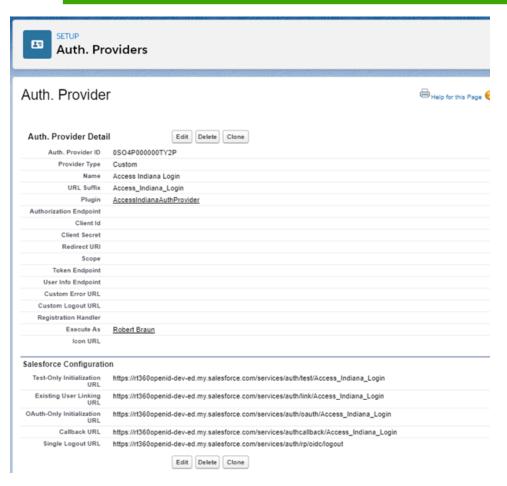




#### Auth. Provider





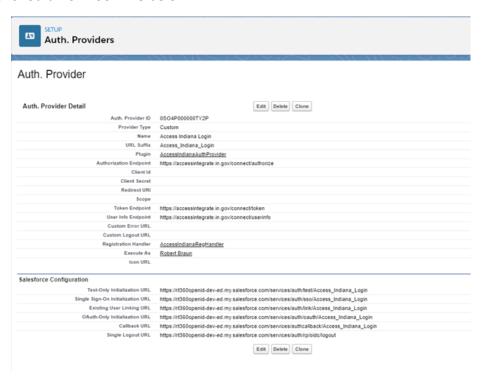


• In a browser, enter the following URL to see the Access Indiana well-known endpoints: <a href="https://accessintegrate.in.gov/.well-known/openid-configuration">https://accessintegrate.in.gov/.well-known/openid-configuration</a>. Notice the URLs for the "authorization endpoint", "token endpoint", and "userinfo endpoint".



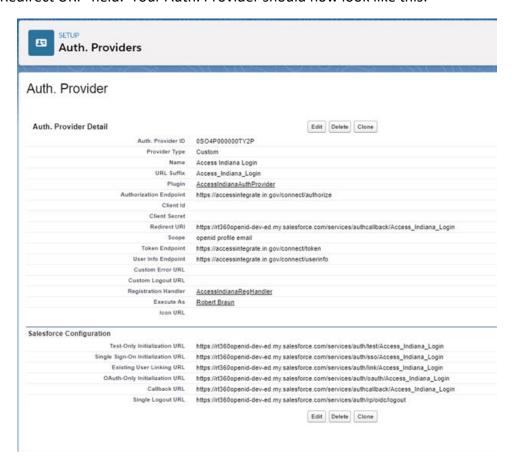
```
"issuer": "https://accessintegrate.in.gov",
"jwks_uri": "https://accessintegrate.in.gov/.well-known/openid-configuration/jwks",
"authorization_endpoint": "https://accessintegrate.in.gov/connect/authorize",
"token_endpoint": "https://accessintegrate.in.gov/connect/token",
"userinfo_endpoint": "https://accessintegrate.in.gov/connect/userinfo",
"end_session_endpoint": "https://accessintegrate.in.gov/connect/endsession",
"check_session_iframe": "https://accessintegrate.in.gov/connect/checksession",
"revocation_endpoint": "https://accessintegrate.in.gov/connect/revocation",
"introspection_endpoint": "https://accessintegrate.in.gov/connect/introspect",
"device_authorization_endpoint": "https://accessintegrate.in.gov/connect/deviceauthorization",
"frontchannel_logout_supported": true,
"frontchannel_logout_session_supported": true,
"backchannel_logout_supported": true,
"backchannel_logout_session_supported": true,
"scopes_supported": [
    "openid",
    "profile",
    "email",
   "offline_access"
"claims_supported": [
   "name",
    "family_name",
   "given_name",
    "middle_name",
    "updated_at",
    "email",
    "email_verified",
   "email_updated_at"
```

 Copy each of the URLs for the endpoints listed above and paste into the "Authorization Endpoint, "Token Endpoint", and "User Info Endpoint" fields, respectively. Your Auth. Provider should now look like below:





Edit the Auth. Provider page again and enter "openid profile email" in the Scope field.
 Copy the Callback URL from the Salesforce Configuration section and copy it to the "Redirect URI" field. Your Auth. Provider should now look like this:



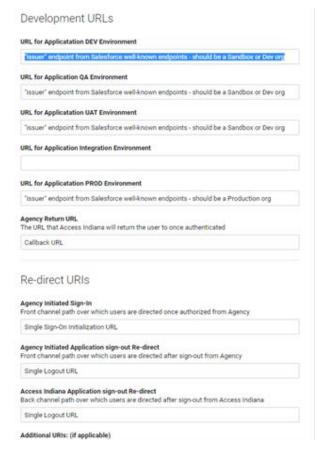


#### Register an application with Access

- To register your client application with Access Indiana, submit the online form located: https://app.smartsheet.com/b/form/472a5b71e31f455ebf14b39d9858f77b
- Complete the Agency information in the top part of the form. The Salesforce URL information can be found either in the Auth. Provider you just created, or in the Salesforce well-known endpoints.
- Provide the requested URLs so Access Indiana can create an application (tile) in Access Indiana that will collaborate with your Auth. Provider. Once this is set up, you will receive notice from Access Indiana along with a unique client id and client secret.
- Bring up a browser and navigate to your Salesforce org's well-known endpoints.
- Here is an example segment for the ingovtech openid Sandbox well-known endpoints: <a href="https://ingovtech--openid.cs33.my.salesforce.com/.well-known/openid-configuration">https://ingovtech--openid.cs33.my.salesforce.com/.well-known/openid-configuration</a>)

```
"end_session_endpoint": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/auth/idp/oidc/logout",
"frontchannel_logout_supported": false,
"issuer": "https://ingovtech--OpenId.cs33.my.salesforce.com",
"authorization_endpoint": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/authorize",
"token_endpoint": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/token",
"revocation_endpoint": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/revoke",
"userinfo_endpoint": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/userinfo",
"jwks_uri": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/userinfo",
"registration_endpoint": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/register",
"introspection_endpoint": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/register",
"introspection_endpoint": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/introspect",
"scopes_supported": "https://ingovtech--OpenId.cs33.my.salesforce.com/services/oauth2/introspect",
"https://ingovtech--OpenId.cs33.my.salesforce.com/se
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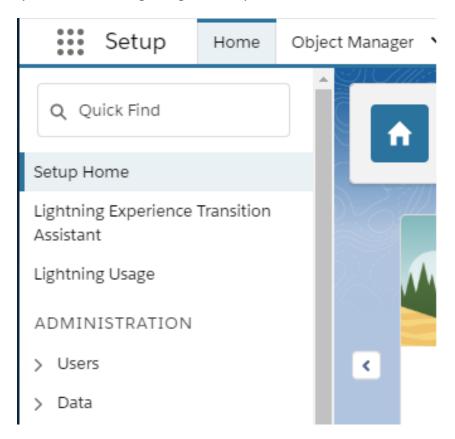
- Notice the "issuer" URL above. This is the URL for either the DEV, QA, UAT, or Integration environments. A Production org will not contain the Sandbox name in the "issuer" URL.
- The remaining URLs can be found in the Auth. Provider configuration you are setting up.
- For the "Agency Return URL" enter the "Callback URL", e.g.: <a href="https://rt360openid-deved-my.salesforce.com/services/authcallback/Access Indiana Login">https://rt360openid-deved-my.salesforce.com/services/authcallback/Access Indiana Login</a>
- For the "Agency Initiated Sign-In" Re-Direct URL, enter the "Single Sign-On Initialization URL", e.g.: <a href="https://rt360openid-dev-ed.my.salesforce.com/services/auth/sso/Access Indiana Login">https://rt360openid-dev-ed.my.salesforce.com/services/auth/sso/Access Indiana Login</a>
- For the "Agency Initiated Application sign-out Re-direct and "Access Indiana Application sign-out Re-direct" Re-direct URLs, enter the "Single Logout URL", e.g.: https://rt360openid-dev-ed.my.salesforce.com/services/auth/rp/oidc/logout

Submit the form and wait for your acknowledgement and client id and client secret.



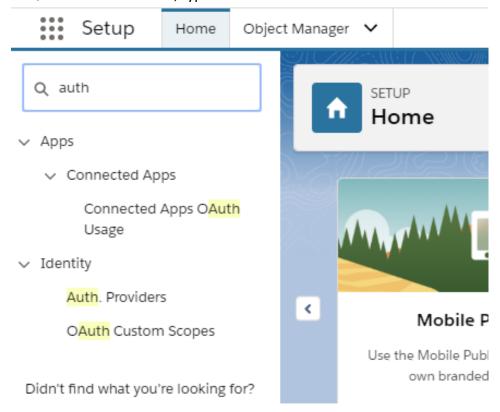
#### **Final Configuration**

- Once you receive your client id and client secret from Access Indiana, you will need to update your Auth. Provider configuration in your Salesforce org.
- Log into your Salesforce org and go to Setup.

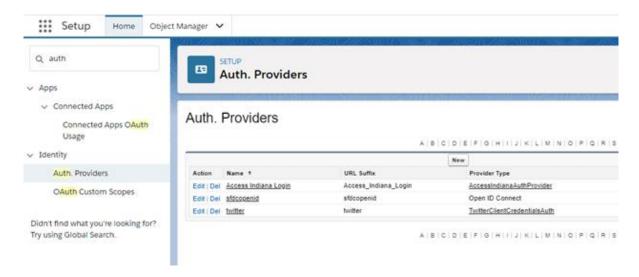




In the Quick Find search field, type "auth" and click the Auth. Providers link.

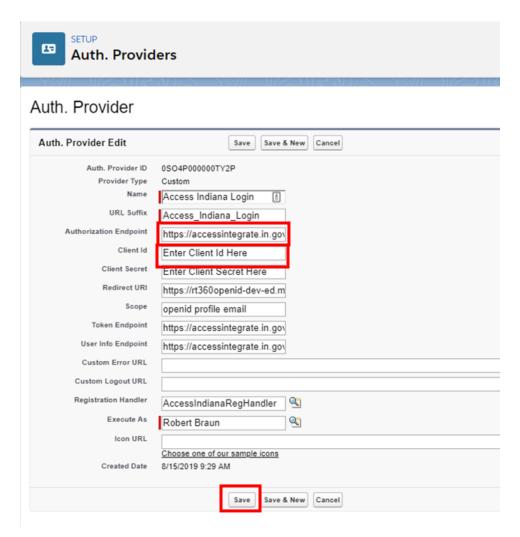


You should now be at the SETUP Auth. Providers home page.





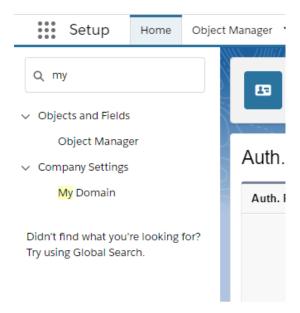
Edit your Auth. Provider to add the Client Id and Client Secret. Enter the Client Id and Client Secret values you received from Access Indiana into the Client Id and Client Secret fields, respectively. Save your configuration by clicking the Save button at the bottom of the page.



At this point, your Access Indiana custom Auth. Provider is fully configured. Now, we need to make sure Users can access this authentication. To do this, we add the Auth. Provider you just created to the sign-in page as a button.



Type "my" in the Setup Quick Find field and select the "My Domain" link.



This navigates you to the My Domain SETUP home page.

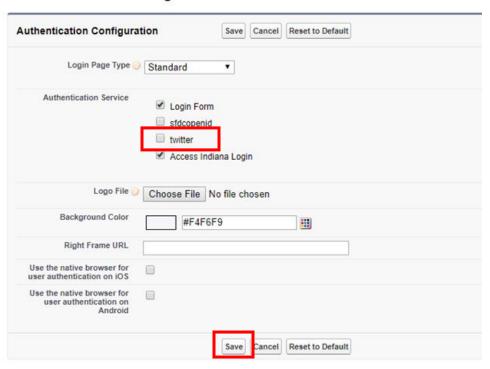


Notice the "Authentication Configuration" section. Click the Edit button for this section. You will see an Authentication Service for the "Access Indiana Login" Auth. Provider you just created. Check the checkbox next to it to add that button to the login page.



Click the Save button at the bottom of the page to save this configuration.

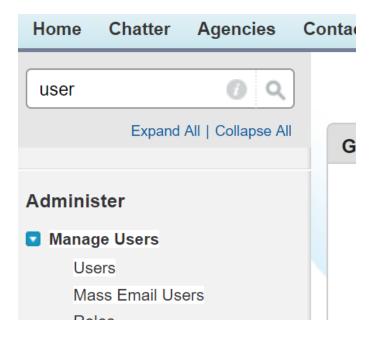
#### **Authentication Configuration**





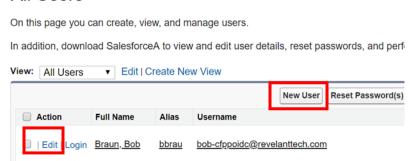
#### Set up a User

■ In the Setup Quick Find field, type "user".



- Click the Users link to go to the All Users page.
- Either create a new User or edit an existing User. In this example, I am editing the Braun, Bob User by clicking the Edit link.

#### All Users

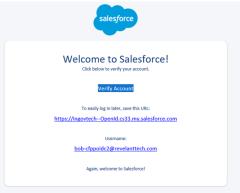




 Scroll down in the edit page to the "Additional Information" section. Enter the "Access Indiana Email" into the Access Indiana Email field.



Your User should receive an email from support@salesforce.com with a link to "Verify your account".



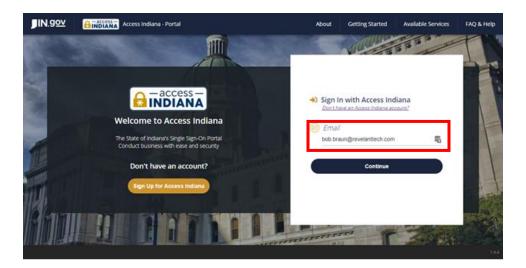
 Once the user ha clicked on the Verify Account link, the user is now ready to log in via Access Indiana.



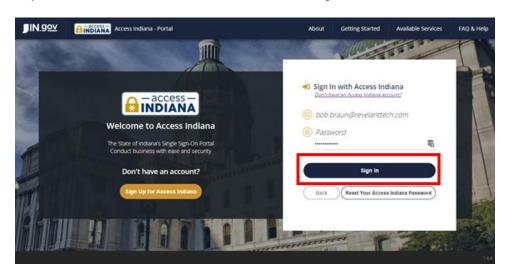
#### Test Your App

To test your application, log in to Access Indiana. In a browser, enter this URL: <a href="https://accessintegrate.in.gov">https://accessintegrate.in.gov</a>

 Enter your Access Indiana Email address and click Continue (or click the "Don't have an Access Indiana account?" link to create an account.)

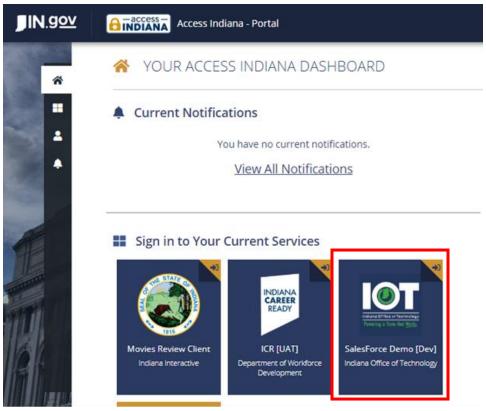


Enter your Access Indiana Password and click the Sign In button.





You are now in the Access Indiana – Portal.



• Find the tile for your Access Indiana application. In this example, it is the IOT Salesforce Demo [Dev] tile. Click that tile to log into your Salesforce org.

